TOTALVIEW

RELEASE NOTES



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These Release Notes are for TotalView version Version 6.2.0-3. It contain important information that affects your software.

This document contains information about bugs that existed in previous versions that have been fixed and bugs that still exist.

Other booklets you may need to read are:

- "TotalView Platforms": Lists the platforms and environments in which TotalView runs.
- "Special IBM Considerations": Describes special considerations when running TotalView on IBM platforms.
- "Special Linux Considerations": Describes special considerations when running TotalView on Linux platforms.
- "Patching": Outlines the procedures for installing patches to software provided by other vendors that must be done before you can TotalView.

You can obtain these documents in the following ways:

- PDF and HTML versions can be obtained from http://www.etnus.com/Support/docs.
- PDF and HTML versions are contained with the documentation tar file that you can download when you are downloading TotalView from our web site.
- A HyperHelp version of this file can be viewed after installing TotalView by selecting the Help > Release Notes command.

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The manuals for this release are *TotalView Users Guide*, *TotalView Reference Guide*, and *TotalView Installation Guide*. Their version number is 6.2.

TotalView News

Consult the "New Features" section within TotalView's Help system for a discussion of the new features contained within TotalView. Our web site highlights these changes.

This section describes changes that are not mentioned in that document. New items are in bold.

- Group > Reload symbols command no longer necessary
- Using libdbfork on AIX
- tvdrc File
- X Resources and preferences
- cset demangler option replaced by xlf

Group > Reload symbols command no longer necessary

TotalView will automatically reload symbols if it discovers you have recompiled your program

Using libdbfork on AIX

On AIX, 64-bit binaries for version 4.3 are completely different from 64-bit binaries for version 5.1. Thus, you will need to link with a version of the dbfork library that is specific to your operating system. If you are creating 64-bit code on AIX 4.3, use:

```
/usr/totalview/lib.libdbfork_64.a \
```

-bkeepfile:/usr/totalview/lib.libdbfork 64.a

On AIX 5.1 use:

```
/usr/totalview/lib.libdbfork_64_51.a \
-bkeepfile:/usr/totalview/lib.libdbfork_64_51.a
```

.tvdrc File

The location of the .tvdrc has moved. Begining at Version 6.0, TotalView creates a .totalview subdirectory within your home directory. It expects to find your .tvdrc within this subdirectory. Temporarily, TotalView will also look in your home directory for a .tvdrc if it doesn't find a .tvdrc file in the .totalview subdirectory. This means that you do not need to move your startup file immediately. However, we do not guarantee that future versions will look in both places.

X Resources and preferences

Prior to Version 6.0, you could alter TotalView's behavior by setting values in an .Xdefaults file. Beginning at Version 6.0, you should either use TotalView's preferences or set variables in a .tvdrc file. TotalView will read your .Xdefaults file the first time it comes up in version 6 and then translate any values it finds into variables, and then write these variables into its preferences file. After this time, it will ignore your .Xdefaults file.

If, however, you are placing entries in an .Xdefaults file that modify the Visualizer's behavior, these entries will continue to be used.

cset demangler option replaced by xlf

The **cset** demangler option to the **-demangler** command line option and the **TV::current_cplus_demangler** variable is deprecated and replaced by the **xlf** option.

Problems Fixed

The following sections list the problems that have been fixed.

- Problems Fixed On All Platforms on page 3
- HP Alpha Tru64 Problems Fixed on page 8
- IBM AIX Problems Fixed on page 10
- Linux IA-64 Problems Fixed on page 12
- Linux x86 Problems Fixed on page 13
- SGI IRIX Problems Fixed on page 15
- Sun SPARC Solaris Problems Fixed on page 16

Problems Fixed On All Platforms

The following problems have been fixed. More details about each item follow this list. Items new with this release are in bold.

- Action Point > At Location: Typing C++ member function (6.1.0-2)
- Action Point > At Location: No longer torn down (6.1.0-2)
- Ambiguous functions from dynamically loaded shared libraries are found when looking up a function (6.1.0-2)

- **Problems Fixed**
- Bulk launch sometimes failed if single debug server launch was disabled (6.2.0-0)
- Buttons now responsive if two process windows are open (6.1.0-3)
- C++ class variables were incorrectly marked as 'Stale' (6.2.0-0)
- Diving on an Fortran 90 variable can cause a fatal error (IRIX and Linux) (6.20-0)
- Error Message Problem: resolve final symbol error (6.1.0-2)
- Fortran modules list item order (6.2.0-3)
- GCC 3.2 g77: General note (6.1.0-2)
- Group > Delete problem fixed (6.1.0-3)
- Keyboard accelerator notation standardized (6.2.0-0)
- Launch strings now include %B by default (6.2.0-0)
- Loading a breakpoint file for a shared library could crash TotalView (6.1.0-3)
- Message Queue Graph node placement (6.1.0-2)
- -pid command line option added (6.2.0-0)
- Program Browser: Cannot be used until process starts (6.2.0-3)
- Search Paths: Fatal Error starting up with very large search path values (6.1.0-2)
- Setting breakpoints in functions located in two different libraries problem fixed (6.2.0-0)
- Spell checker problems resolved (6.2.0-0)
- Threads not proceding (6.1.0-3)
- tvpane.cxx crash (6.2.0-0)
- UPC shared addresses of shared variables and shared pointers given as local (6.1.0-2)
- Variable names in Variable Window title (6.1.0-2)
- -verbosity command line option no takes precedence (6.1.0-2)
- View > Lookup Function/File problem (6.1.0-2)
- Window focus changes affected some users (6.2.0-0)

Action Point > At Location: Typing C++ member function

Problem trying to set a breakpoint by typing the C++ member function name into this dialog box was resolved (6.1.0-2: 4518)

Action Point > At Location: No longer torn down

TotalView no longer tears down this dialog window when a function name is misspelled (4510: 6.1.0-2)

Ambiguous functions from dynamically loaded shared libraries are found when looking up a function

When looking up a function defined in more than one dynamically loaded shared libraries, TotalView will now present an Ambiguous Function dialog box that lets you pick which version of the function should be opened. (4488: 6.1.0-2)

Bulk launch sometimes failed if single debug server launch was disabled

If the single debug server launch was disabled by using TotalView's Preferences Dialog Box and the bulk launch only required one server to be started, TotalView would fail with an internal error. While this problem is fixed, you should be aware that even with a bulk launch, TotalView may actually be using a single server launch. (4673: 6.2.0-0)

Buttons now responsive if two process windows are open

In addition, closing the first window no longer causes an internal error. (4600: 6.1.0-3)

C++ class variables were incorrectly marked as 'Stale'

Diving on certain class variables brought up a Variable Window that indicated the values were **Stale**, even following lines where they had just been updated. (4567: 6.2.0-0)

Diving on an Fortran 90 variable can cause a fatal error (IRIX and Linux)

This problem occurred either when diving on a local variable that is being referenced inside a contained subroutine or when diving on a module that contained only data. The error you saw began as follows:

```
Fatal error: index 8 out of range [O, 8] in st_nameset_set_t::get_current_interpretation ... (4538: 6.2.0-0)
```

Error Message Problem: resolve final symbol error

TotalView no longer generates thousands of ERROR: Couldn't resolve_final_symbol has been addressed (4545: 6.1.0-2)

Fortran modules list item order

The modules listed by the **Tools > Fortran Modules** command are no longer alphabetical. (4800: 6.2.0-3)

GCC 3.2 g77: General note

Several known issues debugging applications compiled with this compiler when using TotalView 6.0 were resolved (4583: 6.1.0-2)

Group > Delete problem fixed

Entering the **Group > Delete** command on a multi-threaded or multi-process program sometimes crashed TotalView. The following message was displayed.

Fatal error: Can't live without a process (4609)

Keyboard accelerator notation standardized

The notation that indicated keyboard accelerators within TotalView's menus has been regularized. (4686: 6.2.0-0)

Launch strings now include %B by default

The default **tvdsvr** and Visualizer launch strings now use the **%B** replacement character. The **%B** expands to the full path to the **bin** directory of the running TotalView installation. (4491, 4629: 6.2.0-0)

Loading a breakpoint file for a shared library could crash TotalView

When this happened, TotalView displayed the following error message:

Fatal error: tv_target_addrlist_t access out of range Terminated (4501: 6.1.0-1)

Message Queue Graph node placement

Node placement is now preserved after clicking the **Update** button (4403: 6.1.0-2)

-pid command line option added

The new **-pid** command line option lets you specify a running process as a debug target. (2312: 6.2.0-0)

Program Browser: Cannot be used until process starts

You cannot use the Program Browser until the target process starts. This fixes a problem where the wrong variable data could be shown or TotalView might crash when diving on these variables. (4809: 6.2.0-3)

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Search Paths: Fatal Error starting up with very large search path values

Problems that caused TotalView to terminate with errors like Fatal Error: Attempt to allocate a temp string containing X bytes or TotalView: FATAL ERROR STARTING UP: form long result too large when you entered an especially long search path are resolved. (3462: 6.1.0-2)

Setting breakpoints in functions located in two different libraries problem fixed

Setting a breakpoint on a function located in two different libraries or images after a dlopen no longer crashes TotalView when you click **Go** and the dlopen attaches to the shared library. The error message displayed was:

Fatal error: db breakpoint t::register sourcelevel blocks: Unexpected number of blocks in one target (4616: 6.2.0-0)

Spell checker problems resolved

The spell checker that existed in version 5 no longer exists. Instead, it has been integrated with TotalView's ambiguous function system. This is documented in the TOTAL VIEW USERS GUIDE. (4505: 6.2.0-0)

Threads not proceding

Threads did not proceed off of a "When hit, stop thread" breakpoint when you entered a Group->Go or Group->Next command. (4144, 4145, 4660, 4666: 6.1.0-3)

tvpane.cxx crash

In some cases, if you had modified the source code after an executable was compiled, an internal error in TotalView could occur due to inconsistent line number information in the executable. (4560: 6.2.0-0)

UPC shared addresses of shared variables and shared pointers given as local

When debugging a UPC application, TotalView was correctly displaying the value of objects of type pointer to shared. However, it did not correctly representing the shared addresses of objects that were themselves shared. (4508: 6.1.0-2)

Variable names in Variable Window title

These titles are no longer corrupted after several dives (4463: 6.1.0-2)

-verbosity command line option no takes precedence

The -verbosity command line option now take precedence over any use of the dset VERBOSE variable in .tvdrc files. (4530: 6.1.0-2)

View > Lookup Function/File problem

Using this command to open a header file no longer causes a crash (4514: 6.1.0-2)

Window focus changes affected some users

Window focus behavior changed at version TotalView 6. If window focus follows the pointer rather than by clicking in a window, you saw changes when new windows were raised. For example, clicking in the Root Window to change the current process would change focus to the Process Window. Clicking again on a different process in the Root Window was disabled until focus was brought back to the Root Window. Totalview 6.2 now only changes the focus for the 'find' window. (4549: 6.2.0-0)

HP Alpha Tru64 Problems Fixed

The following problems have been fixed. More details about each item follow this list.

- C++ static variables not visible (6.2.0-3)
- "exAssert in file typanes.cxx line 1190" problem fixed (6.2.0-0)
- Files can now be found through symbolic links (6.2.0-0)
- GCC 3.1: TotalView can parse debug information For stl::deque (6.0.0-1)
- KCC 4.0F: Problem parsing information from C++ class solved (6.0.0-1)
- KCC: Startup problem resolved (6.2.0-3)
- libpthread.so problem resolved (6.2.0-3)
- Loading executable problem fixed (6.1.0-3)
- Memory Usage command now shows correct values of heap usage (6.0.0-1)
- Optimizing compiler variables no longer show misleading values (6.0.0-1)
- prun bulk launch no longer crashes tvdsvr (6.2.0-3)
- Reading symbols for pointer problem fixed (6.2.0-0)
- Reading symbols causing seg fault problem fixed (6.2.0-0)
- Reloading breakpoint file problem fixed (6.2.0-0)

C++ static variables not visible

C++ static variables were not visible either when diving or when using the **View** > **Lookup Variable** command. (4827: 6.2.0-3)

"exAssert in file typanes.cxx line 1190" problem fixed

TotalView sometimes issued the non-fatal error "exAssert in file typanes.cxx line 1190" when undiving in the Source Pane. (4665: 6.2.0-0)

Files can now be found through symbolic links

TotalView was sometimes unable to locate source files when debugging programs through symbolic links. The search path rules have been improved. See Setting Search Paths in Chapter 3 of the TOTALVIEW USERS GUIDE. (4683: 6.2.0-0)

GCC 3.1: TotalView can parse debug information For stl::deque

When using the GCC 3.1 compiler on Tru64 with the STL container **stl::deque**, TotalView crashed. This no longer occurs. (4014: 6.0.0-1)

KCC 4.0F: Problem parsing information from C++ class solved

Previously, TotalView would crash, producing the following error message when it processed debugging information for certain types of C++ classes compiled with the KCC 4.0f compiler: (4482: 6.0.0-1)

Fatal error: Cannot convert from st_error_type_t to st_aggregate_type_t

KCC: Startup problem resolved

TotalView no longer crashes when it starts up upon certain KCC compiled codes. (4793: 6.2.0-3)

libpthread.so problem resolved

A problem where you could receive a TotalView error when you looked up variables in **libpthread.so** is resolved. (4808: 6.2.0-3)

Loading executable problem fixed

TotalView no longer crashes with a segmentation fault while loading an executable. (4649: 6.1.0-3)

Memory Usage command now shows correct values of heap usage

TotalView no longer displays the following error message after you invoked the **Tools > Memory Usage** command on Tru64:

ERROR: ifb relocate address: Bogus address ...

The heap usage should now be correct. (4511: 6.0.0-1)

Optimizing compiler variables no longer show misleading values

If you used the Compaq compiler's **-g3 -fast** command-line options, TotalView would show values for some variables that the optimizing compiler had removed. (4437: 6.0.0-1)

prun bulk launch no longer crashes tvdsvr

A prun bulk launch no longer causes the **tvdsvr** to get a segmentation violation. (4777: 6.2.0-3)

Reading symbols for pointer problem fixed

Internal errors resulting from reading the symbol for a pointer to a derived type defined in an Fortran 90 module are resolved. (4699, 4706: 6.2.0-0)

Reading symbols causing seg fault problem fixed

A segmentation fault that occurred when TotalView read symbols on some specific executables no longer occurs. (4649: 6.2.0-0)

Reloading breakpoint file problem fixed

The fatal error that occurred after reloading a breakpoint file containing breakpoints in *dlopened* library is fixed. (4501: 6.2.0-0)

IBM AIX Problems Fixed

The following problems have been fixed. More details about each item follow this list. Items new with this release are in bold

- 2 GB code size problem fixed (6.2.0-0)
- Cray pointers issue (6.1.0-2)
- Diving on a Fortran 90 local variable problem fixed (6.1.0-3)
- Form_long result too large problem fixed (6.2.0-0)
- Fortran logical type issue (6.2.0-2)
- Fortran parameter lookup problem fixed (6.2.0-0)
- GCC 3.2: Internal Error starting up upon a GCC 3.2 compiled executable (6.1.0-2)
- Large data segments no longer crash TotalView (6.1.0-3)

- MPI processes randomly stop before hitting a user breakpoint during startup (6.1.0-3)
- Multi-dimensioned const arrays no longer crashes TotalView (6.1.0-3)
- Multi-threaded core debugging problem fixed (6.2.0-3)

2 GB code size problem fixed

The error debugging code with data size greater than 2 GB is resolved. When this problem occurred, TotalView displayed the following error message:

TotalView: FATAL ERROR STARTING UP: Attempt to register overlapping

asects ...

(4646: 6.2.0-0)

Cray pointers issue

Problem diving on cray pointers in common blocks when using xlf 7.1 was resolved (4521: 6.1.0-2)

Diving on a Fortran 90 local variable problem fixed

Diving on a local variable in a Fortran 90 module would sometimes fail, causing a 'not found' dialog box to pop up. This occurred when the **Prefered Scope** field showed incorrect information regarding the current scope. (4617: 6.1.0-3)

Form long result too large problem fixed

A problem with the C++ demangler would sometimes result in variable names that were too long to fit into an internal buffer. (4601: 6.2.0-0)

Fortran logical type issue

TotalView now displays Fortran logical types correctly (4708: 6.2.0-2)

Fortran parameter lookup problem fixed

The TotalView internal error resulting from attempting to lookup a Fortran parameter has been resolved. (4632: 6.2.0-0)

GCC 3.2: Internal Error starting up upon a GCC 3.2 compiled executable

A TotalView crash starting up upon an executable compiled with GCC 3.2 was fixed. The GCC 3.2 compiler failed to emit correct debug information, which caused an internal error within TotalView. (4507: 6.1.0-2)

Large data segments no longer crash TotalView

The error messages you saw were (in part):

TotalView: FATAL ERROR STARTING UP: read_all_symbols: After save-and-stop, the target still isn't stopped

and

TotalView: FATAL ERROR STARTING UP: Attempt to register overlapping asects (4524, 4646: 6.1.0-3)

MPI processes randomly stop before hitting a user breakpoint during startup

MPI processes randomly stopped before hitting a user breakpoint during startup of an MPI job. We are aware that this may occur under some circumstances and are working on an improved fix. (4634: 6.1.0-3)

Multi-dimensioned const arrays no longer crashes TotalView

This occurred when you examined these kinds arrays in C programs compiled with gcc 2.95 (4544: 6.1.03)

Multi-threaded core debugging problem fixed

TotalView no longer crashes with the following message when it is debugging a multi-threaded core file: (4807: 6.2.0-3)

Fatal error: While trying to workaround a GNU V3 compiler bug, we failed to find a subroutine at provisional address ...

Linux IA-64 Problems Fixed

The following problems have been fixed. More details about each item follow this list. Items new with this release are in bold.

- Fortran static link problem (6.2.0-3)
- MPT Support (6.2.0-3)

Fortran static link problem

TotalView no longer produces an internal error when you are debugging a statically liked Fortran program. (4817: 6.2.0-3)

MPT Support

MPT is now supported on SGI's ALTIX series of IA-64 Linux servers. The supported version of MPT is 1.7. (4761: 6.2.0-3)

Linux x86 Problems Fixed

The following problems have been fixed. More details about each item follow this list. Items new with this release are in bold.

- Attaching problem fixed (6.1.0-3)
- CodeRoad JNI Bridge attaching problem fixed (6.2.0-3)
- configure autostart licensing problem fixed (6.1.0-3)
- File > Preferences > Formatting: Defaults Command No Longer Crashes TotalView (6.0.0-1)
- GCC -gstabs compiler option support is improved (6.1.0-3)
- GCC 3.1 and 3.2: Opaque Type Problem When Base Class in a Different Shared Library Problem Resolved (6.0.0-1)
- Lahey/Fujitsu Fortran: Assembly shown by mistake (6.1.0-2)
- Lahey/Fujitsu Fortran: Showing wrong source (6.1.0-2)
- Lahey/Fujitsu Fortran: Stepping problems fixed (6.2.0-3)
- Miscounting processors (6.2.0-0)
- printf() problems (6.2.0-0)
- RMS prun and Message Queue (6.2.0-3)
- Watchpoint warning message suppressed (6.1.0-3)

Attaching problem fixed

Previously, attaching to a running process could cause the following fatal error:

TotalView: FATAL ERROR STARTING UP: LID for the main executable is null

This occurred if you had recompiled the process while a copy was still active or if the proc file system had mistakenly marked it as deleted. (4656: 6.1.0-3)

CodeRoad JNI Bridge attaching problem fixed

The CodeRoad JNI Bridge no longer fails to attach to the Java Virtual Machine when running under NetBeans. This occurred when NetBeans was installed in a deep directory tree. (4741: 6.2.0-3)

configure_autostart licensing problem fixed

The **configure_autostart** installation script no longer fails to set up the necessary hooks to start the license manager daemon in the commonly-used runlevel 5 (graphical log in). (4611: 6.1.0-3)

File > Preferences > Formatting: Defaults Command No Longer Crashes TotalView (4473)

GCC -gstabs compiler option support is improved

Support for executables compiled with the GNU GCC compiler with the **-gstabs** compilation option has been improved. (4088, 4089)

GCC 3.1 and 3.2: Opaque Type Problem When Base Class in a Different Shared Library Problem Resolved

Sometimes, when diving into a class whose base class was in a different shared library, TotalView would show the base class as an opaque type. (4466)

Lahey/Fujitsu Fortran: Assembly shown by mistake

Previously, assembly code was displayed instead of the source file when diving on F90 modules, even when the module has executable statements. (4374: 6.1.0-2)

Lahey/Fujitsu Fortran: Showing wrong source

Previously, TotalView could show source or assembly code for the wrong file when you dove or used View > Lookup Function on a Fortran 90 module. This occurred when diving on modules that contained only data (that is, it did not have any executable statements) (4158: 6.1.0-2)

Lahey/Fujitsu Fortran: Stepping problems fixed

Problems with stepping certain Lahey/Fujitsu Fortran 95 programs no longer occur. (3658: 6.2.0-3)

Miscounting processors

TotalView was miscounting processors on Hyperthreading Xeons running Red Hat 8.0. (4564: 6.2.0-0)

printf() problems

On Red Hat 7.3 with either the default packages or the updated i686 packages, calling **printf()** in an **eval point** crashed the target. (4203: 6.2.0-0)

RMS prun and Message Queue

Error messages related to and problems displaying the message queue when debugging RMS prun programs no longer occur. (4790: 6.2.0-3)

Watchpoint warning message suppressed

TotalView no longer displays the following message when you set watchpoints on long long values:

Attempt to add wrong child type to a homogeneous RowColumn widget (4546)

SGI IRIX Problems Fixed

The following problems have been fixed. More details about each item follow this list. Items new with this release are in bold.

- Breakpoints no longer disappear when using group step, next, or run to (6.0.0-1)
- Fortran Modules Support (6.2.0-3)
- Incorrect statistics and visualization of UPC distributed arrays (6.1.0-2)
- Loading a breakpoint file for a shared library could crash TotalView (6.2.0-0)
- STL type transformations limitation (6.2.0-0)
- TotalView crash problem fixed (6.2.0-3)
- Value of remote elements of shared arrays not correctly represented (6.1.0-2)

Breakpoints no longer disappear when using group step, next, or run to

When issuing a group level next, step, or run to command, breakpoints on the lines that were stepped over could disappear. (4469: 6.0.0-1)

Fortran Modules Support

The Fortran Modules window now shows Fortran 90 modules for programs compiled using the MIPSpro compilers. (3798: 6.2.0-3)

Incorrect statistics and visualization of UPC distributed arrays

TotalView presented incorrect data to the Visualizer when asked to display array data that was stored in UPC arrays of type **shared**. TotalView was also unable to correctly generate summary statistics on such an array. These problems are resolved. (4484: 6.1.0-2)

Loading a breakpoint file for a shared library could crash TotalView

When this happened, TotalView displayed the following error message:

Fatal error: tv_target_addrlist_t access out of range Terminated (4501: 6.1.0-1)

STL type transformations limitation

The new STL type transformations were designed for MIPSpro C++7.3.1.3m. There are known problems with older MIPSpro compilers. (4750: 6.2.0-0)

TotalView crash problem fixed

TotalView no longer crashes when processing debugging information. The error message displayed states that it happened while processing the dwarf frame table. (3798: 6.2.0-3)

Value of remote elements of shared arrays not correctly represented

A synchronization problem that prevented TotalView from displaying the correct values for remote elements of a UPC **shared** array when stopped during an initialization loop was resolved. (4500: 6.1.0-2)

Sun SPARC Solaris Problems Fixed

The following problems have been fixed. More details about each item follow this list. Items new with this release are in bold.

- "Attempt to get an address from a located symbol ..." problem fixed (6.2.0-0)
- CodeRoad JNI Bridge: Apparent hanging problem fixed (6.2.0-3)
- "Current scope not a block" error fixed (6.2.0-0)
- DBX class tag errors (6.1.0-3)
- "Duplicate entry in table" error (6.2.0-0)
- Fortran 90 breakpoint problem fixed (6.1.0-3)
- MPI and Sun ClusterTools 5: Focus problem (6.1.0-2)
- Sun Cluster Tools 5 MPI problem fixed (6.1.0-3)
- Sun WorkShop 5.0: Local variables (6.1.0-2)
- TotalView terminates with an internal error and no other information (6.1.0-3)

"Attempt to get an address from a located symbol ..." problem fixed

The following fatal error no longer occurs on some GCC 3.X executables "Attempt to get an address from a located symbol that does not directly address memory". (4680: 6.2.0-0)

ed

CodeRoad JNI Bridge: Apparent hanging problem fixed

The JVM within some versions of the JDK used the SEG signal during startup. As TotalView catches this signal, the JVM was stopped, giving the appearance that the Bridge and the Java IDE were hung. (4781: 6.2.0-3)

"Current scope not a block" error fixed

If a Fortran 90 program used modules, TotalView would sometimes crash with the following error message:

Fatal error: Current scope is null or is not a block ...

(4569: 6.2.0-0)

DBX class tag errors

TotalView no longer generates a series of error messages relating to a DBX class tag. (4623: 6.1.0-3)

"Duplicate entry in table" error

TotalView would terminate with a "Duplicate entry in table" fatal error when a sleep() was placed between mpi finalize() and a return. (4009: 6.2.0-0)

Fortran 90 breakpoint problem fixed

The problem that caused TotalView to fail when you set a breakpoint in an Fortran 90 no longer occurs. This problem was associated with the following error message:

Fatal error: Current scope is null or is not a block (4569: 6.1.0-3)

Missing library load notifications when using JNI Bridge problem fixed (4460).

MPI and Sun ClusterTools 5: Focus problem

When debugging an MPI application using Sun ClusterTools 5, TotalView now focuses on main() after the ranked processes are stopped for setting breakpoints (4267: 6.1.0-2)

Sun Cluster Tools 5 MPI problem fixed

When running some Sun Cluster Tools 5 MPI programs through without stopping, TotalView would sometimes crash and display the following error message:

Fatal error: Kill returned code -1 when sending a stop signal Terminated (4556: 6.1.0-3)

Sun WorkShop 5.0: Local variables

Problem with showing local variables in Fortran 90 program compiled with Sun WorkShop 5.0 resolved (4519: 6.1.0-2).

TotalView terminates with an internal error and no other information (4621: 6.1.0-3)

Known Problems

The following sections list the problems that have been found.

- Problems on All Platforms on page 18
- HP Alpha Tru64 Problems on page 24
- HP Alpha Linux Problems on page 27
- IBM AIX RS/6000 Problems on page 27
- Linux ia64 Problems on page 32
- Linux x86 Problems on page 32
- SGI IRIX Problems on page 37
- Sun SPARC Solaris Problems on page 39

You may find your problem (and its solution) documented on our website's FAQ, which is located at http://www.etnus.com/Support/fags.html.

Problems on All Platforms

The following are problems that we know about. More details about each item follow this list.

- C++ exceptions
- C++ not supported in the evaluation system (6.0.0-0)
- dprint does not display the contents of a common block or module. (6.0.0-0)
- Evaluation system: casting return values (6.0.0-0)
- Evaluation system: fortran intrinsics such as WRITE and COS not supported
- Evaluation System: Spaces required and case sensitive
- Evaluation point with a goto and a step
- Fortran 90 modules not supported in the evaluation system (6.0.0-0)

- Fortran arrays whose size changes
- Function static variables may be invisible when using KCC
- GUI: Accelerators are overriding menu mnemonics if F10 is pressed (5.0.0-0)
- Multithreaded corefile display problem (5.0.0-0)
- Portland Group Compilers (or PGI) (6.0.0-0)
- PVM (6.0.0-0)
- Type transformations system revised; older version is incompatible (6.0.0-0)
- Variables in subblocks may not be found when using GCC 3.2 (6.0.0-0)
- Watchpoints not allowed on registers (5.0.0-0)
- Xoftware and Motif problems (5.0.0-0)

C++ exceptions

TotalView does not have full support for C++ exceptions. Single-stepping over code that will throw an exception is problematic and often results in the process running away. To help with this situation, TotalView will detect when an exception throw is going to occur while single-stepping.

By default, TotalView brings up a dialog box to ask if you wish to stop the process. Answering **No** continues the process. Be aware that if you are stepping within the "try" block, your process may run away. Answering **Yes** stops the process upon entry into the system runtime routine that issues the throw. This is a temporary solution and full C++ exception handling may be provided in a future TotalView version

This mechanism is available for all supported C++ compilers on the supported platforms for SGI IRIX 6.x, Power AIX, Alpha HP Tru64, and Sun SPARC Solaris platforms.

You can change this behavior if you select the Warn about C++ exceptions during single step operations checkbox within the File > Preferences dialog box's Options Page. This option lets you toggle the warning on and off.

If this option is turned off, TotalView does not catch C++ exception throws during single-step operations. This may cause the single-step operation to lose control on the process and cause it to run away.

Known Problems

C++ not supported in the evaluation system

C++ code fragments are not yet supported by TotalView. You will need to use C wrapper code if you need to use call methods in the evaluation system. Here is an example that uses a C wrapper that lets you call these methods.

```
#include <stdio.h>
class Foo {
public:
Foo() { a=0; b=0; c=0; }
void set_a(int rhs) { a = rhs;}
void set_b(int rhs) { b = rhs;}
void set_c(int rhs) { c = rhs;}
int get_a() { return a;}
int get_b() { return b;}
int get_c() { return c;}
void operator=(Foo &rhs) {
     a = rhs.a;
     b = rhs.b;
     c = rhs.c;
private:
     int a;
     int b;
     int c;
};
extern "C" {
     int foo get a (Foo &tmp) {
     return tmp.get_a();
int foo_get_b(Foo &tmp) {
     return tmp.get b();
int foo_get_c(Foo &tmp) {
    return tmp.get_c();
void foo_set_a(Foo &tmp, int new_a) {
     tmp.set_a(new_a);
void foo_set_b(Foo &tmp, int new_b) {
     tmp.set_b(new_b);
void foo set c(Foo &tmp, int new c) {
     tmp.set_c(new_c);
void foo_equals(Foo &lhs, Foo &rhs) {
     lhs = rhs;
```

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ems

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```
}

using namespace std;
int main (int argc, char *argv[]) {
   Foo bar1;
   Foo bar2;
   bar1.set_a(10);
   bar1.set_b(20);
   bar1.set_c(30);
   bar2 = bar1;
   return 0;
}
```

This lets you call one of **bar1**'s or **bar2**'s C++ methods in the expression evaluation system using a code fragment like the following:

```
foo_set_a(&bar1, 1024);
(6.0.0-0)
```

dprint does not display the contents of a common block or module.

You cannot use modules and common blocks as an argument to the **dprint** command. (4046: 6.0.0-0)

Evaluation system: casting return values

When calling functions in an Evaluation window, TotalView displays the results as a long. You can change this display by using a cast. (6.0.0-0)

Evaluation system: fortran intrinsics such as WRITE and COS not supported

TotalView does not support Fortran intrinsics such as **write**, **sin**, **cos**, and **tan** in its evaluation system; i.e., in watchpoints, eval points, in the Evaluation Window. (3842)

Evaluation System: Spaces required and case sensitive

TotalView assumes that you will use spaces and lowercase when entering statements in its evaluation system; i.e., in watchpoints, evaluation points, and in the Evaluation Window. For example, the following fails:

```
if(i.ge.10.and. i.le.20) $stop
This will also fail:
if(i.ge.10 .and. i.le.20) $STOP
This succeeds:
```

Known Problems

if(i.ge.10 .and. i.le.20) \$stop (1985)

Evaluation point with a goto and a step

If an evaluation point executes a **goto** statement or an assembly language transfer of control instruction, and you use the **step** or **next** command at the line where the evaluation point is enabled, TotalView continues the program and the **step** or **next** command does not complete. To regain control, type Ctrl+C into the program window.

Fortran 90 modules not supported in the evaluation system

Fortran 90 modules are not supported by the evaluation system. On AIX, TotalView may hang when evaluating an expression containing a module variable. (4002: 6.0.0-0)

Fortran arrays whose size changes

When a Variable Window displays a single element of a Fortran array that has runtime bounds (that is, assumed shape, assumed size, allocatable, or a pointer), and the actual bounds change, the value displayed in the Variable Window applies to the wrong element in the reshaped array.

You will only see this problem when all of the following conditions occur:

- The size of your Fortran array changes
- You use the View > Variable command
- You are only displaying a single element, either because you have dived, or because you had used an array index with a command that displays this window.

To overcome this problem, display the whole array, then dive to the element that you want to see. Alternately, if you select the specific element of interest by setting the slice expression rather than by diving, the correct element always displays, even if the array changes shape.

Function static variables may be invisible when using KCC

The KCC compiler moves a static variable from the function in which it is declared and places the declaration at file or global scope. It also mangles the name to show that the variable ought to be at function scope.

GUI: Accelerators are overriding menu mnemonics if F10 is pressed

TotalView's use of single letter accelerators such a f and v override the menu mnemonics (the underlined letters) when the menubar is selected using the F10 key. (2756)

Multithreaded corefile display problem

TotalView shows the wrong initial thread in a multithreaded corefile. It should display the file that received the signal. (3267)

Portland Group Compilers (or PGI)

TotalView 6.0 does not support any version of the pqf90 compiler. (6.0.0-0)

PVM

We have not yet certified PVM support on TotalView 6.0. Please report any problems you find to support@etnus.com. (6.0.0-0)

Type transformations system revised; older version is incompatible

The type transformation system that was previously available in TotalView 5.0 is not supported in TotalView 6.0. The new system is described in the Creating Type Transformations Guide. Go to http://www/etnus.com/Support/docs/ type transformations.html for a list of which compilers are supported. (3881: 6.0.0-0)

Variables in subblocks may not be found when using GCC 3.2

There is a known compiler problem in GCC 3.2 that emits incorrect debug information for variables instantiated in subblocks; for example, for a variable whose scope is a conditional block or loop. The effect is that you may not be able to dive on these variables in TotalView 6.0. The problem also exists when using GDB and is being reported to the GCC maintainers. (4399: 6.0.0-0)

Watchpoints not allowed on registers

TotalView does not support setting watchpoints on registers. If you set a watchpoint on a register variable TotalView does not display an error message. When the value in the register changes, TotalView does display an error message, but this message does not indicate what the real problem is. (3075)

Xoftware and Motif problems

If you set Xoftware version 8 to emulate setting Motif properties, modal dialog boxes can become system modal; that is, they prevent all other window input to any window until the window is dispatched. If some other problem occurs at this time, you will need to reboot your NT workstation.

You can avoid this problem by selecting the **Windows Option tab** from within the **Options>Configuration** dialog box and set **Motif Properties** to off.

Motif text acclerators sometimes do not work. (2840)

Typing an Escape while navigating in the menus may crash TotalView if your focus policy is "X". (2714)

When displaying Help, Xoftware often mangles how it displays pictures.

HP Alpha Tru64 Problems

The following are problems that we know about. More details about each item follow this list.

- Anonymous unions using GNU
- Compiling with -C to detect subscripts
- Fortran 90 modules not in stack frame in HP (Compaq) Fortran (6.0.0-0)
- Opaque type showing up on Tru64 (6.0.0-0)
- Planting too many action points causes problems
- Pointers may show incorrect values using GCC 3.1.1 on Tru64 4.0f (6.0.0-0)
- prun problem finding executable file during MPI debugging. (6.0.0)
- Setting a breakpoint in a large shared-memory target causes a SEGV
- Thread debugging problems on all versions of HP Tru64

Anonymous unions using GNU

The GNU compiler does not output debugging information for members of anonymous unions that are enclosed in other aggregates when using the ECOFF format on the HP Alpha. As a result, if you are debugging in such an environment, you will not see these kind of members while looking at a data structure that contains them. Furthermore, the debugging information for the offsets of aggregate members that follow the anonymous union is output incorrectly, so these members are displayed with incorrect values.

Compiling with -C to detect subscripts

Compiling with-C to detect subscript out of range errors at run-time may cause TotalView to jump to a dimension statement while stepping.

On occasion, you will see a box appearing around the line number of a dimension statement when you are stepping through a routine. Due to a compiler bug in HP Alpha Fortran, several assembler instructions generated for certain bounds checks are associated with the line number of the array dimension statement rather than with the line number where the subscript is checked. When you single step a bounds-checked line and if that line contains the lowest instruction addresses associated with a dimension statement, TotalView will stop at the dimension statement. TotalView steps over other bounds-checked lines properly.

Fortran 90 modules not in stack frame in HP (Compaq) Fortran

Some versions of the HP Alpha Fortran compiler do not provide information about where modules are USEd. These compilers only provide module information at the global level.

You need to specify when a module is USEd in main or in a subroutine so that you access those variables from that context within TotalView. Until this is resolved, you can get to the variables that are members of modules using **Tools** > **Fortran Modules** command. (3709, Echelon ticket #'s 1412 and 4742: 6.0.0-0)

Opaque type showing up on Tru64

Compaq C++ V6.5-006 for Compaq Tru64 UNIX V5.1 (Rev. 732) doesn't define some variables inside STL containers and as a result Totalview shows their type as opaque type. (4408: 6.0.0-0)

Planting too many action points causes problems

On a Tru64 system, using one or more TotalView commands that plant a lot of breakpoints results in an error message being displayed when you run, continue, step, or otherwise cause your program to continue or start execution.

HP is aware of the problem, but a fix is not yet available.

You can temporarily workaround this problem by using **dbx** to increase the **vt_maxentries** variable to something like 20,000. For example:

```
dbx -k /vmunix
assign vm_tune.vt_mapentries=20000
quit
```

You can also alter **vt_mapentries** using the **sysconfigdb** program. Consult the man page for more information.

Pointers may show incorrect values using GCC 3.1.1 on Tru64 4.0f

Incorrect values may be shown by TotalView when debugging targets compiled with GCC 3.1.1 on Tru64 4.0f. The problem does not appear when using Tru64 5.1. (4439, 4124: 6.0.0-0)

prun problem finding executable file during MPI debugging.

This is a problem that has been logged against **prun**. When **prun** starts, it may receive an executable's full path. After acquiring the processes **prun** strips off the path name portion of the executable, and hands TotalView only the executable name. If TotalView's search paths are not set correctly, TotalView may be unable to find, or may find the wrong version of the program to debug. Updating to RMS 2.80-5 or later should resolve the issue.

(4275: 6.0.0-0)

Setting a breakpoint in a large shared-memory target causes a SEGV

If setting a breakpoint causes the operating system to allocate shared page tables, reading information from these pages can lead to the program getting a SEGV and TotalView exiting with a **resources lost** message. You can avoid this problem by setting the value of **ssm-threshold** to 0. For example:

```
#sysconfig -r ipc ssm-threshold=0
ssm-threshold: reconfigured
#sysconfig -q ipc ssm-threshold
ipc:
ssm-threshold = 0
```

Setting this value to 0 can degrade performance.

This problem has been reported, but a fix is not yet available.

Thread debugging problems on all versions of HP Tru64

Because of a bug in the Alpha thread debugging support on HP Tru64, the low-level thread hold operation can allow a held thread to run. TotalView uses the low-level

thread hold operation to prevent a thread from running when single-stepping another thread

For example, assume your program has two threads, thread A and thread B. Assume that thread A is stopped at a breakpoint, and thread B is stopped elsewhere but not at a breakpoint. To continue the process (that is, both threads), TotalView must step thread A off the breakpoint. To do this, TotalView holds thread B. Then it unplants the breakpoint where thread A is stopped, sets a temporary breakpoint at the next instruction, and continues the process. Because of the hold thread bug, both thread A and thread B may run even though thread B is held. This means that thread B may miss the real breakpoint and hit the temporary breakpoint instead.

The following behaviors can indicate the presence of this bug:

- Threads miss breakpoints.
- Threads do not evaluate interpreted breakpoints.
- You see undeserved process stops, that is, the process may stop unexpectedly after evaluating an interpreted breakpoint.
- During single-stepping operations, threads other than the thread being stepped run.

HP Alpha Linux Problems

The following is a problem that we know about.

Fortran 90 modules problem

HP (formerly Compaq) Fortran 90 for Alpha Linux provides no Fortran 90 modules debug information. Module functions and variables are inaccessible in programs generated with this compiler.

IBM AIX RS/6000 Problems

The following are problems that we know about. More details about each item follow this list. Items new with this release are in bold.

- AIX may only create a partial core file
- Array statistics and visualization problems when using very large arrays (6.0.0-0)
- Calling dynamic objects from Evaluation Window

- Certain XLF compiler options may show incorrect addresses for common blocks in 64-bit mode (6.0.0-0)
- Continuing from a breakpoint in a 64-bit multithreaded application may cause the application to fail (6.0.0-0)
- Multithreaded problems
- poe interferes with a standalone CLI's use of stdin
- ptrace attaching fails
- Process contention scope not supported
- pthdb_pthread() returns an empty pthread list
- Signals are not delivered to the thread the user requested (6.0.0)
- Watchpoints are not supported on the Power4 architecture (6.1.0-2)
- XL Fortran: Compiler omits information about modules in OpenMP programs (6.0.0)
- XL Fortran: Not all versions supported (6.2.0-0)
- xlf 8.1.0.0 compiler emits broken module debug information (6.1.0-3)

AIX may only create a partial core file

By default, AIX only dumps a partial core file. In general, a partial core dump contains only enough information to give a stack backtrace for the faulting thread. User data sections as well as some other potentially useful information are only available in a full core dump.

To force a full core dump on AIX, you must set a signal flag with **sigaction** for the signal that caused the core dump. For example:

```
struct sigaction act;
act.sa_handler = SIG_DFL;
if (bigcore)
    act.sa_flags = SA_FULLDUMP;
else if (smallcore)
    act.sa_flags = SA_PARTDUMP;
sigaction (SIGSEGV, &act, O);
```

Array statistics and visualization problems when using very large arrays

Using array statistics and array visualization on some large Fortran arrays with TotalView for IBM AIX can cause memory consumption problems. If this occurs, TotalView may appear to hang or may exit with a memory allocation fatal error. (3870, 3872, Echelon ticket# 5478: 6.0.0-0)

Calling dynamic objects from Evaluation Window

If a routine in a dynamic object is called from the expression window, and if the target routine is never called from the main program, TotalView refuses to call the routine. (6.0.0-0)

Certain XLF compiler options may show incorrect addresses for common blocks in 64-bit mode

When compiling an OpenMP program, the combination of the **-qsmp** and **-q64** compiler options appear to generate incorrect debug information for the location of large common blocks. When diving onto the common block, TotalView will show incorrect values since the debug information is pointing it to the wrong starting location for the common.

Continuing from a breakpoint in a 64-bit multithreaded application may cause the application to fail

This is an AIX 5.1 kernel bug. The bit that indicates 32-bit/64-bit application code in the MSR (Machine Status Register) is cleared during one of the system calls. This can clear the high order 32 bits in the 64-bit address under some circumstances when trying to continue from the breakpoint. Your program may subsequently seg fault or get an illegal instruction trap.

Contact Etnus customer support for instructions on obtaining a fix from IBM if you encounter this problem. You may also contact IBM technical support directly. They are tracking the issue as APAR IY36607. (4216: 6.0.0-0)

Multithreaded problems

You may experience some problems when debugging multithreaded programs, because of limitations in the **ptrace()** operating system call.

The following problems can show up while you are debugging multithreaded applications:

- 1 When a thread stops (for example, hits a breakpoint) all the other threads stop. If any of the other threads stops while in a system call (for example, read(), sleep(), select(), etc.), however, ptrace() does not allow the debugger to read the thread's registers. As a result, TotalView:
 - ➤ Cannot display the registers, including the program counter; but does display the stack pointer
 - ➤ Cannot show you which system call is being executed

- ➤ Cannot single-step using the *step* or *next* command, but *out* and *run* to work
- ➤ Cannot display the top stack frame

If you have a multithreaded application that makes a lot of system calls, it is possible that most of your threads are not fully debuggable whenever one of them stops.

- **2** TotalView shows you which threads are stuck in the kernel by displaying their state as In Kernel (**K**).
- **3** When a thread is created or destroyed, the system does not notify the debugger of this event. As a result, the list of threads displayed by TotalView may be stale when the program is running.
- **4** If the process stops for any reason, TotalView automatically updates the thread list. You may also type **View** > **Reset** to force the thread list to update.

poe interferes with a standalone CLI's use of stdin

Because poe tries to manage **stdin** on behalf of its target processes, a CLI invoked directly from the shell cannot read from **stdin**. If your target processes do not use **stdin**, using the **-stdinmode none** option to the **poe** command allows the CLI to use **stdin**. Unfortunately, this option is incompatible with the poe command's **-cmdfile** option.

If your processes do use **stdin**, your only recourse is to redirect **stdin** from within the CLI. For example:

```
drun < in.txt
(pr 2078, 2422)
```

ptrace attaching fails

Versions of the AIX kernel after AIX 4.3.3.1 contain a bug that causes a **ptrace()** attach to fail for some programs. In particular, attaching to a Parallel Environment program may fail. You can solve this problem by installing IY10784, whose description is:

IY10784: ATTACH FAILS TO THE CHILD PROCESS OF A ROOT PROCESS

Process contention scope not supported

On AIX systems, TotalView supports debugging pthread programs running in pthread-compatibility mode or pthreads scheduled in system contention scope, that is, each pthread is bound to a kernel thread (the 1:1 thread scheduling model).

TotalView does not support process contention scope, that is, multiple pthreads scheduled in user mode (M:N thread scheduling model).

On AIX, when using TotalView to debug a program built with libpthreads.a, you must force the 1:1 model using the procedure outlined in Forcing 1:1 Thread Scheduling Mode on RS/6000 Systems, which is contained in the IBM Special Considerations document.

pthdb pthread() returns an empty pthread list

Sometimes when a process is stopped and the pthdb pthread() function is used to obtain a list of pthreads, the returned list is empty even when there are pthreads. (TotalView displays a console message saying that there are no more threads.) You can fix this problem by applying the APAR IY06378 patch to your system. The procedure for obtaining and applying patches is described in RS/6000 System Patch Procedures. which is found in the IBM Special Considerations document.

Signals are not delivered to the thread the user requested

ptrace() only allows TotalView to deliver a signal to the primary thread that is being continued, and that thread must be the distinguished thread; that is, it is the one that caused the last exception.

If you tell TotalView to continue a particular thread with a signal, TotalView can only send it to the current distinguished thread. Most of the time, this means the thread you want to signal will not be the one that will actually receives it. This is true regardless of whether the distinguished thread will also be run or if it is being held.

Note that this does not affect reforwarding of signals that were originally received by the process (for example, for a user SEGV handler). Those are also sent to the distinguished thread, but since it's the thread that the signal stopped, it's the right thread to receive the signal.

Watchpoints are not supported on the Power4 architecture

Watchpoint support is not yet provided by AIX for Power4 processors. When planting a watchpoint, TotalView displays the following error message in the console: (6.1.0-2)

Error planting action point at address Ox####### length #

XL Fortran: Compiler omits information about modules in OpenMP programs

Problems have been seen looking at module data in XL Fortran compiled OpenMP programs. Users experiencing this problem will note that modules are missing from the Program Browser Window. PR3769 (Echelon ticket# 4046: 6.0.0-0)

XL Fortran: Not all versions supported

Versions of IBM XL Fortran 8.1 prior to 8.1.0.3 should not be used with TotalView. You must update to XL Fortran 8.1.0.3. (6.2.0-2)

xlf 8.1.0.0 compiler emits broken module debug information

To fix this problem, you should, at a minimum, apply the latest patch to the compiler, 08.01.0000.0003 (xlf 8.1 PTF3). (6.1.0-3)

Linux ia64 Problems

The following is a problem that we know about.

SGI's MPT not supported

SGI's MPT for Altix is not supported by TV 6.2.0-0. (4761)

Linux x86 Problems

The following are problems that we know about. More details about each item follow this list.

- Breakpoints in C++ constructors in shared libraries problem (6.0.0-0)
- Calling exec() from a thread problems
- GCC g77 problem with common blocks
- GLIBC update required for RedHat 7.3 (6.0.0-0)
- Intel Fortran: 128-bit real support issue (6.1.0-2)
- Licensing problem using Intel Hyperthreading Processors (6.0.0-1)
- Multithreaded corefiles on Linux are not understood. (6.0.0-0)
- Native Posix Thread Library (NPTL) not yet supported (6.2.0-0)
- Opening message queue on some versions of Quadrics/RMS crashes TotalView (6.0.0-0)
- PGI Problems (6.0.0-0)
- Red Hat Linux kernel 2.4 security update causes seg fault (6.2.0-0)
- Red Hat 9 not yet supported (6.2.0-0)

ns

- Stepping into system routine backtrace problem (5.0.0-0)
- Thread debugging and errno

Breakpoints in C++ constructors in shared libraries problem

Static constructors in shared libraries that execute as part of the library initialization are sometimes executed before TotalView plants breakpoints. Breakpoints in this code will not work as expected. (3801, Echelon ticket# 5283: 6.0.0-0)

Calling exec() from a thread problems

Debugging threaded programs (pthreads) that call **exec()** from a thread is not yet supported.

GCC q77 problem with common blocks

The GCC g77 compilers do not output debugging information for common blocks. Consequently, TotalView cannot show the values of variables in common blocks.

GLIBC update required for RedHat 7.3

The **glibc** package must be updated to at least version 2.2.5-40 in order for TotalView 6.0 to work properly on RedHat 7.3. RPM packages are available from RedHat at the following URLs.

ftp://updates.redhat.com/7.3/en/os/i386/glibc-2.2.5-40.i386.rpm

 $ftp://updates.redhat.com/7.3/en/os/i386/glibc-common-2.2.5-40.i386.rpm \\ (6.0.0-0)$

Intel Fortran: 128-bit real support issue

The real(kind=16) and complex(kind=32) types are only partially supported. When displayed in a decimal format, the values are truncated to real(kind=8) and complex(kind=16) before they are displayed. Similarly, if the value is updated using a decimal format, the low significance bits are set incorrectly. (6.1.0-2)

Licensing problem using Intel Hyperthreading Processors

Recent Intel IA32 processors may be used in a mode called Hyperthreading. In this mode, the Linux kernel presents the image of two CPUs for each physical CPU to programs running on the system. TotalView relies on the Linux kernel to obtain CPU count information. The kernel supplied with RedHat versions up to and including 8.0 does not allow TotalView to get a correct CPU count. Etnus has obtained a

kernel patch from Intel that can be easily applied. Contact support@etnus.com to obtain this patch. (6.0.0-1)

Multithreaded corefiles on Linux are not understood.

The RedHat Linux kernels against which TotalView is built and tested do not generate multithreaded corefiles. It is unlikely that TotalView would correctly interpret a multithreaded corefile generated by a Linux kernel that had been compiled with a patch to provide multithreaded corefiles. (6.0.0-0)

Native Posix Thread Library (NPTL) not yet supported

The Native Posix Thread Library (NPTL) threads implementation for Linux is not yet supported. (4613: 6.2.0-0)

Opening message queue on some versions of Quadrics/RMS crashes TotalView

This is due to a problem with ptrace accessing memory that is mapped to the ELAN. Users should update to QSNETLIBS 1.4.3.1. (4283, Echelon ticket# 6130: 6.0.0-0)

PGI Problems

PGI compilers are not supported in TotalView 6.0. (6.0.0-0)

Red Hat Linux kernel 2.4 security update causes seg fault

The Red Hat Linux kernel 2.4 security update fix for ptrace vulnerability causes TotalView to crash with an immediate segmentation fault.

A kernel update RPM package was released for RedHat 7.1, 7.2, 7.3, and 8.0 that addresses a vulnerability in ptrace. This fix introduced a new bug in the kernel that causes TotalView to crash and introduces other kernel stability problems. The kernel developers have located problem and a new fix should be forthcoming.

If you are experiencing this problem and build your own Linux kernels, the solution is to change the definition of **is dumpable** in **include/linux/sched.h** from:

```
#define is_dumpable(tsk)((tsk)->task_dumpable \
    && (tsk)->mm->dumpable)
```

to:

```
#define is_dumpable(tsk)((tsk)->task_dumpable \ && (tsk)->mm && (tsk)->mm->dumpable)
```

The following affected Red Hat RPM packages should not be installed:

Known Problems

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Red Hat Linux 7.1

- kernel-2.4.18-27.7.x.src.rpm
- kernel-2.4.18-27.7.x.athlon.rpm
- kernel-smp-2.4.18-27.7.x.athlon.rpm
- kernel-2.4.18-27.7.x.i386.rpm
- kernel-BOOT-2.4.18-27.7.x.i386.rpm
- kernel-doc-2.4.18-27.7.x.i386.rpm
- kernel-source-2.4.18-27.7.x.i386.rpm
- kernel-2.4.18-27.7.x.i586.rpm
- kernel-smp-2.4.18-27.7.x.i586.rpm
- kernel-2.4.18-27.7.x.i686.rpm
- kernel-bigmem-2.4.18-27.7.x.i686.rpm
- kernel-debug-2.4.18-27.7.x.i686.rpm
- kernel-smp-2.4.18-27.7.x.i686.rpm

Red Hat Linux 7.2

- kernel-2.4.18-27.7.x.src.rpm
- kernel-2.4.18-27.7.x.athlon.rpm
- kernel-smp-2.4.18-27.7.x.athlon.rpm
- kernel-2.4.18-27.7.x.i386.rpm
- kernel-BOOT-2.4.18-27.7.x.i386.rpm
- kernel-doc-2.4.18-27.7.x.i386.rpm
- kernel-source-2.4.18-27.7.x.i386.rpm
- kernel-2.4.18-27.7.x.i586.rpm
- kernel-smp-2.4.18-27.7.x.i586.rpm
- kernel-2.4.18-27.7.x.i686.rpm
- kernel-bigmem-2.4.18-27.7.x.i686.rpm
- kernel-debug-2.4.18-27.7.x.i686.rpm
- kernel-smp-2.4.18-27.7.x.i686.rpm

Red Hat Linux 7.3

- kernel-2.4.18-27.7.x.src.rpm
- kernel-2.4.18-27.7.x.athlon.rpm
- kernel-smp-2.4.18-27.7.x.athlon.rpm

Known Problems

- kernel-2.4.18-27.7.x.i386.rpm
- kernel-BOOT-2.4.18-27.7.x.i386.rpm
- kernel-doc-2.4.18-27.7.x.i386.rpm
- kernel-source-2.4.18-27.7.x.i386.rpm
- kernel-2.4.18-27.7.x.i586.rpm
- kernel-smp-2.4.18-27.7.x.i586.rpm
- kernel-2.4.18-27.7.x.i686.rpm
- kernel-bigmem-2.4.18-27.7.x.i686.rpm
- kernel-debug-2.4.18-27.7.x.i686.rpm
- kernel-smp-2.4.18-27.7.x.i686.rpm

Red Hat Linux 8.0

- kernel-2.4.18-27.8.0.src.rpm
- kernel-2.4.18-27.8.0.athlon.rpm
- kernel-smp-2.4.18-27.8.0.athlon.rpm
- kernel-2.4.18-27.8.0.i386.rpm
- kernel-BOOT-2.4.18-27.8.0.i386.rpm
- kernel-doc-2.4.18-27.8.0.i386.rpm
- kernel-source-2.4.18-27.8.0.i386.rpm
- kernel-2.4.18-27.8.0.i586.rpm
- kernel-smp-2.4.18-27.8.0.i586.rpm
- kernel-2.4.18-27.8.0.i686.rpm
- kernel-bigmem-2.4.18-27.8.0.i686.rpm
- kernel-debug-2.4.18-27.8.0.i686.rpm
- kernel-smp-2.4.18-27.8.0.i686.rpm

Red Hat 9 not yet supported

Red Hat 9 is not yet supported since it includes the Native Posix Thread Library (NPTL). (4762: 6.2.0-0)

Stepping into system routine backtrace problem

If you step into a system routine such as **printf()**, TotalView may stop in the dynamic linker before its information has been fixed up. In this case, you may not be able to return out of this place.

You can avoid this problem by setting **LD_BIND_NOW** to 1 (see Chapter 9 of the TOTALVIEW REFERENCE GUIDE for more information) or you can use the **Next** command instead of the **Step** command. (3015)

Thread debugging and errno

When using pthreads on Linux, the **errno** variable is actually a C macro defined as follows in **bits/errno.h**:

#define errno (* errno location ())

This definition allows each thread to have its own **errno** value. Unfortunately, the program does not contain information that allows TotalView to find this thread specific **errno** value and there remains a single global **errno** variable still exists.

The result is that displaying **errno** in any thread other than the initial one in a process is likely to be very misleading, since you will see the global **errno** variable, rather than the per-thread value accessed by your code through the above macro.

SGI IRIX Problems

The following are problems that we know about. More details about each item follow this list. Items new with this release are in bold

- Arrays in main are not found unless declared in common
- Cray pointers in common blocks broken
- Evaluation system forces real function result into a long temporary
- #include and -cpp Used Together in Fortran 90
- KCC does not put original file name into symbol table
- main not found by TotalView
- Values in assumed sized arrays may be wrong for F77 compiled routines (6.0.0-1)

Arrays in main are not found unless declared in common

If an array is declared in **main**, the SGI MIPSpro 7.3.3 compiler does not create debugging information for the variable. Consequently, TotalView does not know that the array exists. You can workaround this problem by placing the array in a common block.

Cray pointers in common blocks broken

The debugging information generated by SGI 7.3 Fortran compiler for the targets of Cray pointers contained within common blocks contains the wrong address. Here is an example:

```
common a1(1000)
common /ptrs/ jj,iparray,kk
pointer (iparray,array)
iparray = loc(a1)
end
```

array is a real variable that is the target of the Cray pointer **iparray**. Because the address is wrong, TotalView cannot show you the correct values for the **iparray** variable. This bug has been reported to SGI.

Evaluation system forces real function result into a long temporary

When a program is compiled with the Fortran 90 compiler, the TotalView expression evaluation system erroneously converts real function results. The SGI Fortran 90 compiler fails to emit the return type of the function, so TotalView assumes that the return type of the function is a long. When assigned to a real variable, the return result of the function is erroneously converted from a long to a real, when in fact the function had already returned a real. Here is an example:

```
real function x_to_the_y_power(x, y)
TotalView expression:
    real result
    result = x_to_the_y_power(2.0, 4.0)
```

This problem, which does not occur with the Fortran 77 compiler, has been reported to SGI. (pr 2296)

#include and -cpp Used Together in Fortran 90

If source files contain **#include** statements and are compiled with the **-cpp** switch on a Fortran 90 program using the MIPSpro compilers, TotalView generates incorrect line numbers. To avoid this problem, use the standard Fortran **include** statement (without the **-cpp** switch).

KCC does not put original file name into symbol table

IRIX KCC code: TotalView fails to put the original file name (before preprocessing) into the symbol table. This prevents you from asking for the file by name until TotalView processes all the file's symbols.

If you use the **--keep_gen_c** option to the KCC compiler, you can use the following TotalView command: **f** xxx.**int.c** (where your original source file was xxx.**C**) to force full symbol processing of that file, after which you'll be able to do **f** xxx.**C**.

main not found by TotalView

TotalView will not find a Fortran 90 main program. TotalView will not display any source code if you do not use a **PROGRAM** statement within a Fortran 90 program. You can correct this problem by adding a **PROGRAM** statement to your main program. (2099)

Values in assumed sized arrays may be wrong for F77 compiled routines

TotalView may show incorrect array values for assumed sized arrays when using the SGI MIPSpro 7.30 F77 compiler. This is due to a problem in the debug information generated by the compiler. To work around the issue, use the SGI MIPSpro 7.30 F90 compiler or later versions of the F77 compiler. (4513)

Sun SPARC Solaris Problems

The following are problems that we know about. More details about each item follow this list. Items new with this release are in bold.

- Apogee 4.0 compilers must be patched
- Breakpoints in thunks may cause crash
- SUNPERF runs slow when debugging a Fortran 90 program (6.1.0-2)

Apogee 4.0 compilers must be patched

The Apogee 4.0 compilers on Sun OS4 and Sun OS5 require a patch to bring them up to revision level 4.013. Follow the **Apogee 4.0 Compiler Patch Procedures**, which is found in the **Patching** document.

Breakpoints in thunks may cause crash

Using breakpoints in thunks may lead to unexpected results, including having the target program crash unexpectedly. A thunk is a small linkage routine that connects a subroutine call to the actual subroutines in a dynamic library. The SPARC Solaris

dynamic loader modifies the code in the thunks during program execution, which conflicts with TotalView's planting and unplanting of breakpoints. The first time through a thunk, the thunk branches to the dynamic loader, and the dynamic loader modifies the thunk to branch directly to the corresponding dynamic library routine. Subsequent trips through the thunk branch directly to the dynamic library routine.

SUNPERF runs slow when debugging a Fortran 90 program

The SUNPERF library from Sun is stripped of debug information. When using F90 modules from this library in your F90 application, the compiler inserts debug information into the executable that references the symbols that were removed from this library. Unfortunately, TotalView is not able to determine that the symbols inserted by the compiler will be unresolvable, which causes debugging these targets to be slow. (4584)

Reporting Problems

If you experience any problems with TotalView, or if you have questions or suggestions, please contact us:

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Natick, MA 01760

Email: support@etnus.com

Phone: 1-800-856-3766 in the United States

(+1) 508-652-7700 worldwide

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